## ISS Additive Manufacturing Facility for On-Demand Fabrication in Space, Phase II



Completed Technology Project (2013 - 2016)

## **Project Introduction**

Made in Space has completed a preliminary design review of the Additive Manufacturing Facility. During the first half of Phase 1, the design went through conceptual development, simulation testing, cost analysis, and comparison testing of which off-the-shelf parts can be used. The deliverables for Phase I include a written report detailing evidence of demonstrated technology (TRL 5) in the laboratory and will outline in detail the path taken toward hardware demonstration for Phase II (TRL 6). The preliminary design is ready to be manufactured as an engineering test unit in Phase II. A feasibility study was created to demonstrate what could be fabricated for the inside of the ISS (parts and spares) and for the outside (possible satellites). It is anticipated that many of the sample uses that the AMF will make possible on-orbit have not yet been envisioned.

### **Primary U.S. Work Locations and Key Partners**



Organizations Performing Work	Role	Туре	Location
Made in Space, Inc.	Lead Organization	Industry	JACKSONVILLE, Florida
Marshall Space     Flight Center(MSFC)	Supporting Organization	NASA Center	Huntsville, Alabama



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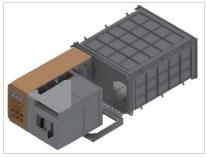
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Primary U.S. Work Locations		
Alabama	Florida	

### **Images**



Briefing Chart Image
ISS Additive Manufacturing Facility
for On-Demand Fabrication in
Space, Phase II
(https://techport.nasa.gov/imag
e/135155)

## Organizational Responsibility

## Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

### **Lead Organization:**

Made in Space, Inc.

#### **Responsible Program:**

Small Business Innovation Research/Small Business Tech Transfer

## **Project Management**

#### **Program Director:**

Jason L Kessler

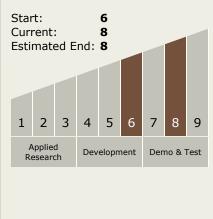
## **Program Manager:**

Carlos Torrez

#### **Principal Investigator:**

Michael Snyder

# Technology Maturity (TRL)





Small Business Innovation Research/Small Business Tech Transfer

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## **Technology Areas**

#### **Primary:**

- TX08 Sensors and Instruments
  - ☐ TX08.1 Remote Sensing Instruments/Sensors
    - ☐ TX08.1.1 Detectors and Focal Planes

## **Target Destinations**

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System

